INSTALLATION INSTRUCTIONS

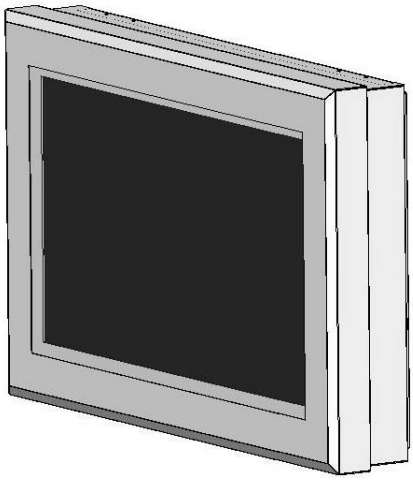
DGC Series Display Guard™ Enclosures
DGC32, DGC42, DGC-50 and DGC-65

The Display Guard series of enclosures are designed to protect flat panel displays in high-risk environments. The series is available in three sizes:

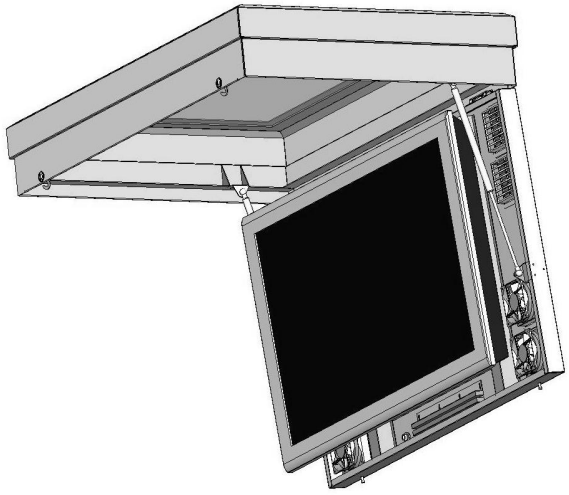
- DGC-32: designed for 32-inch display models
- DGC-42: designed for 42-inch display models
- DGC-50: designed for 50-inch display models
- DGC-65: designed for 65-inch display models

The enclosures are supplied as a fixed wall display enclosure. Accessories, such as the ceiling mount and post assembly, are sold separately.

These enclosures provide excellent security and protection while providing easy viewing and access for adjustments and display maintenance. The enclosures are also equipped with a security locks to protect the display from inadvertent scratches and guard against theft.



Display Guard – Closed



Display Guard – Opened

BEFORE YOU BEGIN

- **CAUTION: To prevent damage to your display and Display Guard, which could affect or void the Factory warranty, thoroughly study all instructions and illustrations before you begin to install the mount. Pay particular attention to the Warnings and Cautions in this document.**
- **CAUTION!** The maximum weight capacity of the Display Guard fixed wall mounts is located in Table 2.

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Chief Manufacturing, a division of Milestone AV Technologies
8401 Eagle Creek Parkway, Savage, MN 55378
P: 800.582.6480 / 952.894.6280 F: 877.894.6918 / 952.894.6918

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IMPORTANT WARNINGS and CAUTIONS!

WARNING	**A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.**
CAUTION	A **CAUTION** alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.
• **WARNING**	**Improper installation can result in serious personal injury! Make sure that the structural members can support a redundant weight factor *five times* the total weight of the equipment. If not, reinforce the structure before installing the mount.**
• **WARNING**	**If the Display Guard is not installed correctly, there is the potential for personal injury or damage to the unit.**
• **WARNING**	**The installer is responsible for verifying that the wall to which the Display Guard will be anchored will safely support the combined load of all attached components or other equipment.**
• **WARNING**	Weight Specifications (see Table 2).
• **WARNING**	**Watch out for pinch points. Do not put your fingers between movable parts.**
• **WARNING**	**Make sure the mount is correctly oriented.**
• **CAUTION**	Check the unit for shipping damage before you begin the installation.
• **CAUTION**	Use only the bolts that are provided and do not over-tighten the bolts.

EXTERIOR DIMENSIONS

Table 1 and Figure 1 provide the exterior dimensions of the Display Guard.

Table 1. Exterior Dimensions

Description	Enclosure Model			
Exterior dimensions	**32”**	**42”**	**50”**	**65”**
Height	27.63	31.94	36.94	44.38
Width	38.74	47.94	55.94	69.64
Depth	19.55	23.01	23.05	21.21

- Specifications are subject to change without notice

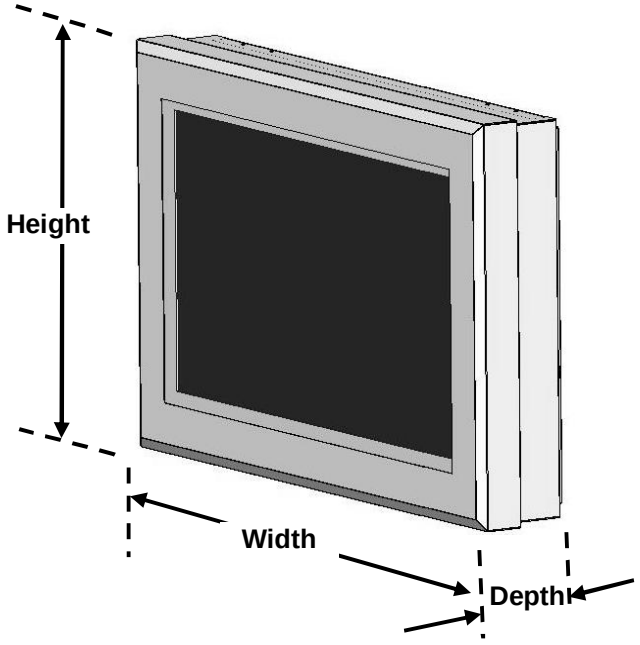


Figure 1. Exterior Dimensions of Display Guard

WEIGHT SPECIFICATIONS

Table 2 provides the weight specifications for Display Guard models.

Do not exceed the maximum support weight, defined as the combined load of all attached components that can be installed in the Display Guard.

Table 2. Weight Specifications

Model	Enclosure Weight	Fixed Wall Mount Max. Support Weight
DGC-32	125 lbs (56.70 kg)	400 lbs (181.4 kg)*
DGCA-32	145 lbs (65.78 kg)	400 lbs (181.4 kg)*
DGC-42	125 lbs (56.70 kg)	400 lbs (181.4 kg)*
DGCA-42	175 lbs (79.38 kg)	400 lbs (181.4 kg)*
DGC-50	155 lbs (70.31 kg)	400 lbs (181.4 kg)*
DGCA-50	195 lbs (88.45 kg)	400 lbs (181.4 kg)*
DGC-65	235 lbs (106.6 kg)	600 lbs (272.2 kg)*
DGCA-65	295 lbs (133.8 kg)	600 lbs (272.2 kg)*

* Fixed wall mount maximum support weight capacity includes combined weight of display being installed and enclosure.

TOOLS REQUIRED FOR INSTALLATION

- Allen wrench set
- Socket wrench set

NOTE: Other tools may be required depending on your method of installation.

PARTS LIST

Unpack the shipping carton and check for the contents listed in Table 3 and shown in Figure 2 on Page 4.

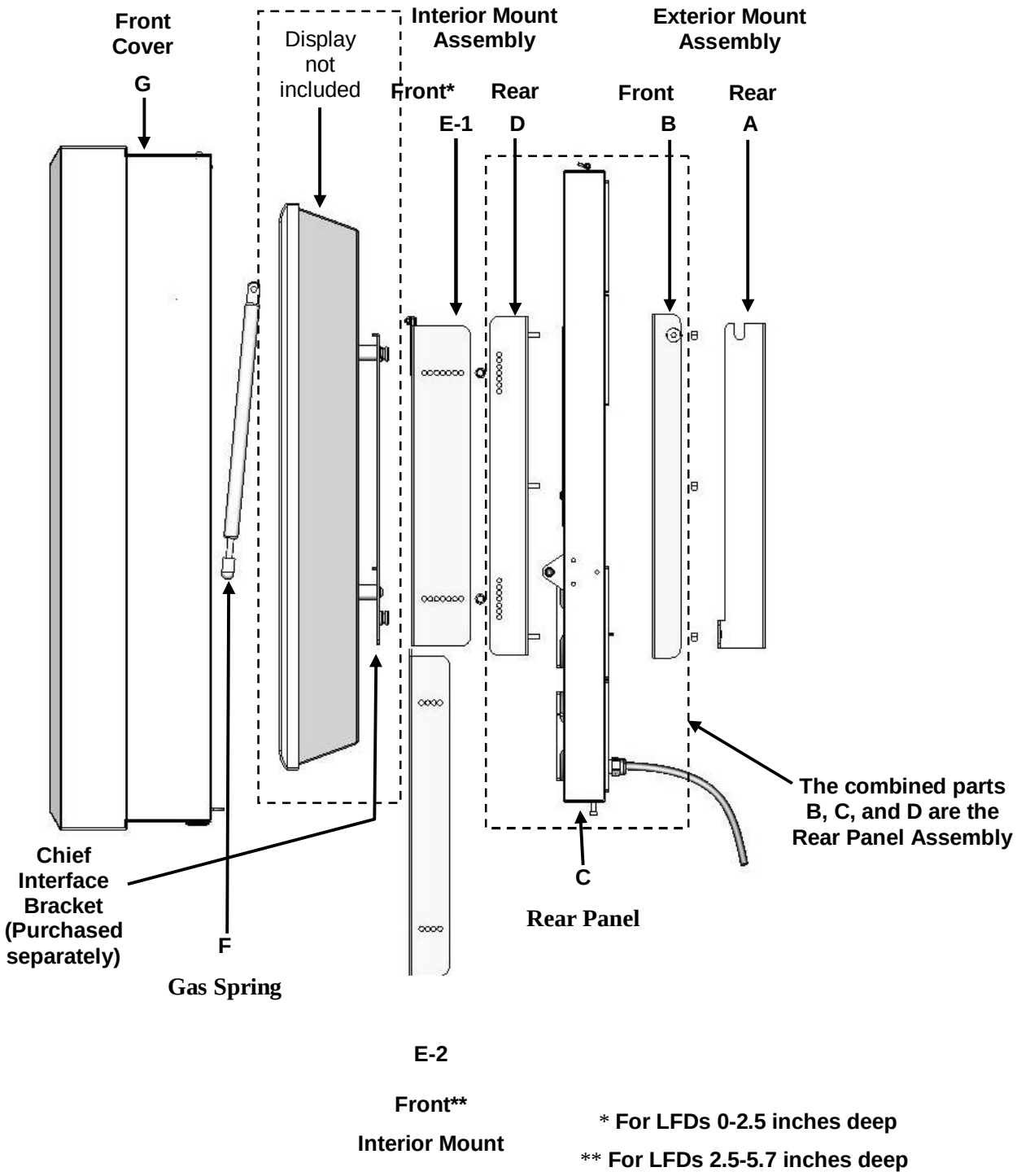
Table 3. Parts List

		32”	42”	50”	65”
REF	DESCRIPTION	QTY	QTY	QTY	QTY
10	GAS SPRINGS	1	1	1	1
20	DISPLAY COVER	1	1	1	1
30	HOUSING with wall brackets	1	1	1	1
40	DISPLAY INTERFACE	1	1	1	1

PARTS

Figure 2 shows an exploded view of the major parts that are assembled to construct the Display Guard.

Figure 2. Display Guard Parts



INSTALLATION

NOTE: Read the Warnings and Cautions on page 2.

Perform the following procedures to install the Display Guard.

Wall Mount the Display Guard

To wall-mount the Display Guard, do the following:

1. Determine the exact mounting location prior to installation and draw a level line to indicate the desired height for the top of the Rear Exterior Mount (A).
2. Ensure that the mounting position is at least the minimum distance from the ceiling as noted in "Table 1. Exterior Dimensions" on page 2.

WARNING: Improper installation can result in serious personal injury! Make sure that the structural framework can support a weight factor *five times* the total weight of the equipment as noted in Table 1 **on Page 2. If not, reinforce the structure before installing the mount.**

3. Check the Rear Exterior Mount (A) to ensure that it is level and correct mounting to achieve level if necessary. See Figure 3.

IMPORTANT! For specific dimensions of rear exterior mount refer to the customer print for the enclosure being installed.

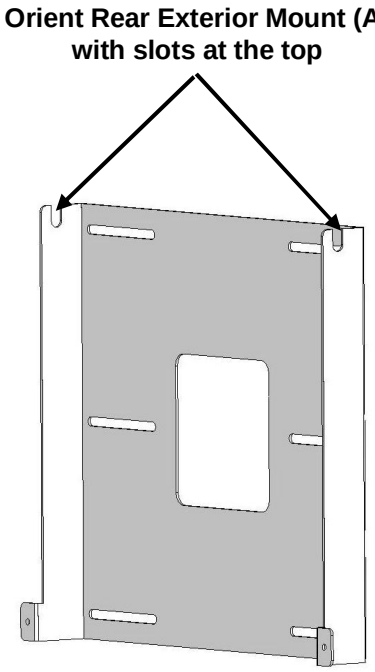


Figure 3. Rear View of Display Guard

Attach Mount to Rear Panel

NOTE: Omit this procedure if the Rear Panel was pre-installed at the factory.

1. Determine the exact mounting location prior to installation and draw a level line to indicate the desired height for the top of the Rear Exterior Mount (A).
2. Place the Front Exterior Mount (B) over the eight studs protruding through the Rear Panel (C).
3. Select mount orientation as follows:
   a. For proper landscape orientation — the shoulder screws on the Front Exterior Mount (B) should be at the top, with the split panel on the Rear Panel Assembly (C) on the bottom. See Figure 4.
   b. For proper portrait orientation — the mounts should be rotated 90 degrees (see Figure 5), with consideration for the preferred swing direction of the cover.
4. Torque the ¼-20 Nylock nuts to 70 in-lbs.

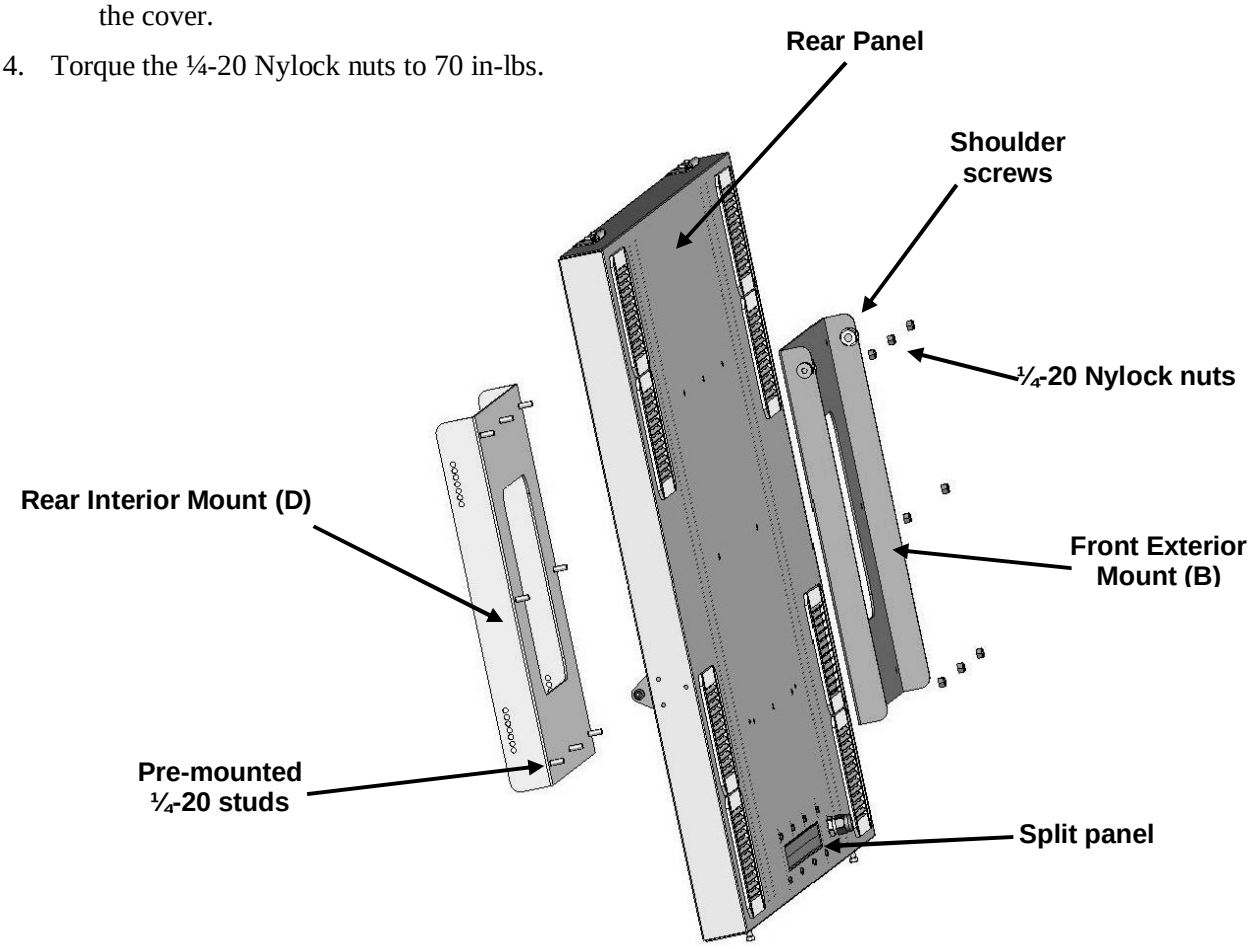


Figure 4. Attach Mount to Rear Panel

Fan Location

To use the Display Guard in portrait mode, do the following:

1. Remove two fans and filters and reposition as shown in Figure 5. Ensure that the louvers and airflow direction are as shown in Figure 6.

NOTE: The fans operate on 120 VAC, with a maximum capacity of 104 CFM per fan.

2. For preventative maintenance, do the following:
   a. Clean the filters at an interval appropriate to the surrounding environmental conditions. Clogged or dirty filters can cause overheating.
   b. Remove the filter covers with a flat blade screwdriver. Be sure to reinstall with the louver openings facing down.

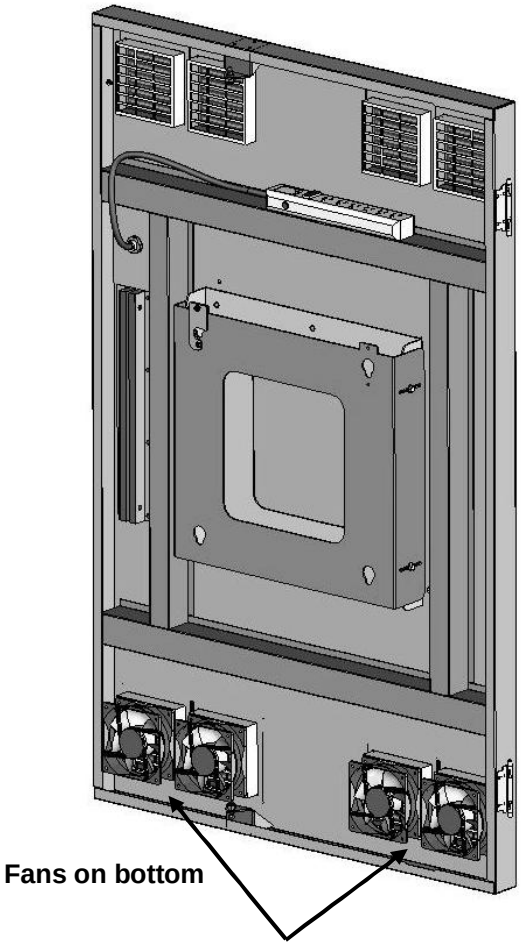


Figure 5. Fan Location

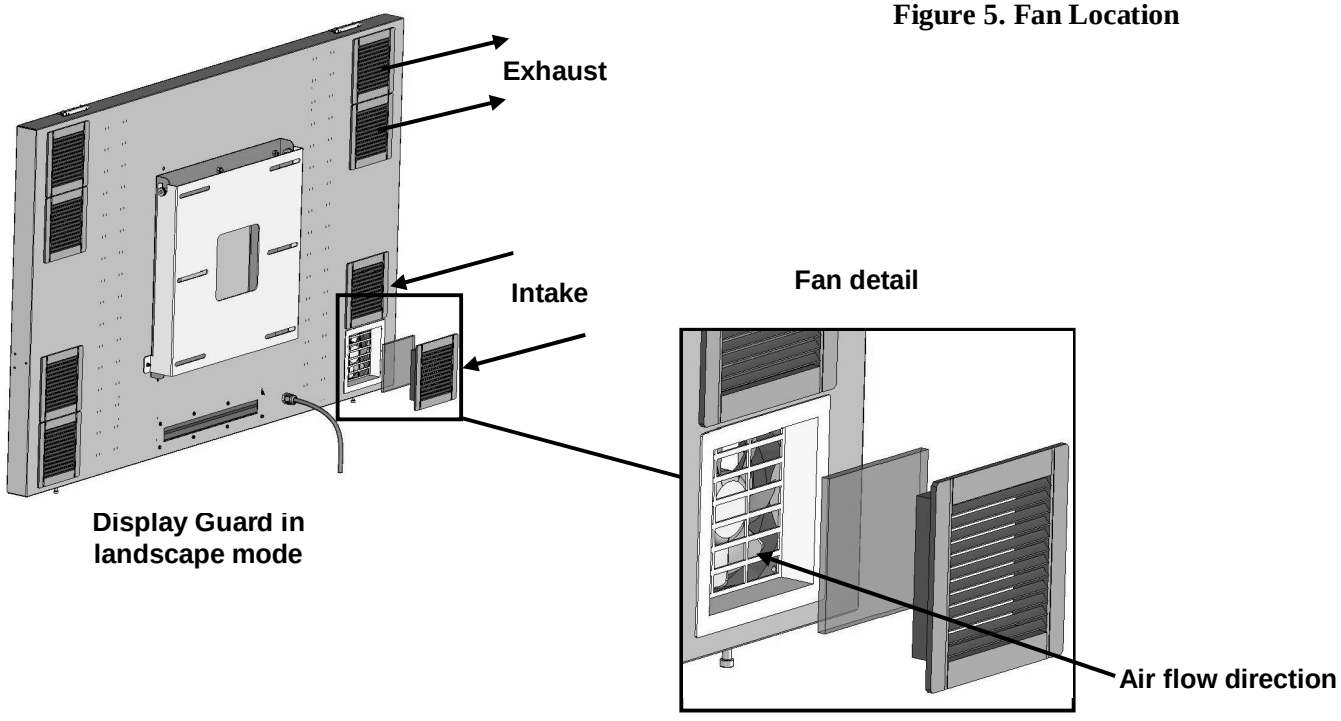


Figure 6. Louvers and Air Flow Direction

Attach PSB-U Interface Bracket to Display

To attach the PSB-U to the display, do the following:

1. Mount the PSB-U interface bracket onto the rear of the display as per the instructions enclosed with the bracket.
2. Connect audio and video cables after the display installed after the display has been attached to the Rear Panel Assembly if possible. The location of connectors on the rear of the display may require the hook-ups are made during the final hanging operation of the display, while accessible.

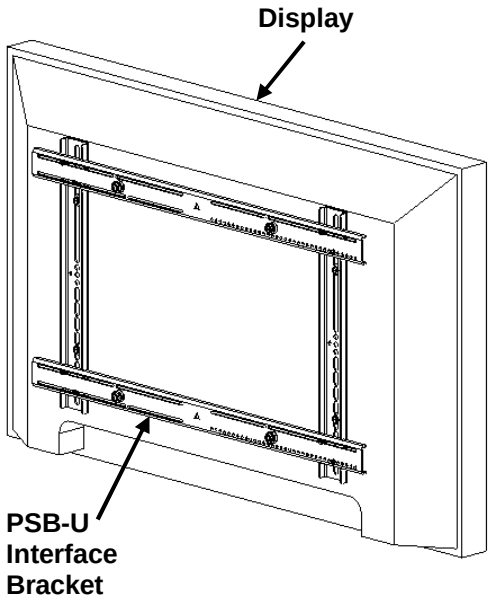


Figure 7. Mount PSB-U Interface Bracket

Install Rear Panel Assembly

Install the rear panel assembly as follows:

1. Engage the shoulder screws on the Front Interior Mount into the slots on the Rear Exterior Mount (see Figure 8).
2. Verify that Rear Exterior Mount is seated.

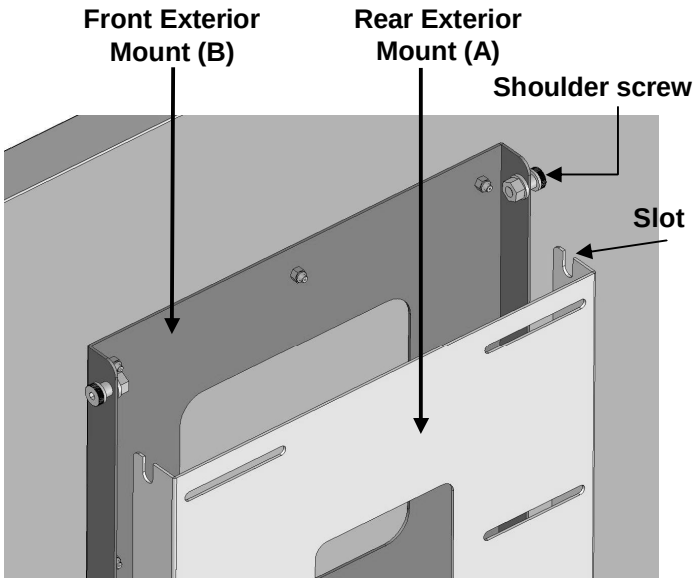


Figure 8. Install Rear Panel Assembly

Secure Exterior Mount

Secure exterior mount as follows:

1. Insert 10-32 x ½ inch bolts through the two holes on either side of the Rear Panel Assembly (C) into the flanges on the Exterior Mount Assembly (see Figure 9).
2. Tighten the bolts.

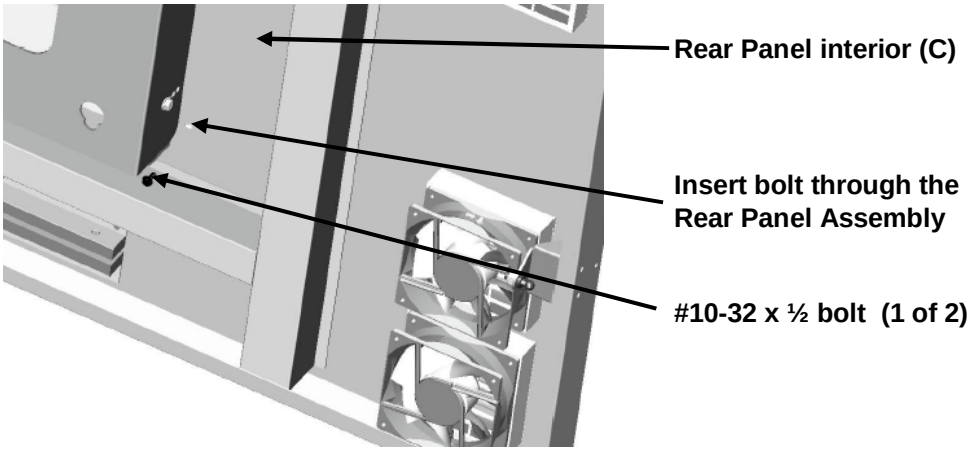


Figure 9. Secure Exterior Mount

Adjust and Assemble Interior Mount

Adjust and assemble the interior mount as follows:

1. Adjust depth and elevation for your specific LFD using the vertical (1 to 7) and horizontal (A to G) hole patterns in the Deep Front Interior Mount (E-1). For the Shallow Front Interior Mount (E-2), use vertical holes 1 to 7 and horizontal holes A to D (see Figure 10).
2. After selecting the appropriate hole patterns, fasten the Front Interior Mount (E) to the Rear Interior Mount (D) using the four ¼-20 x ½-inch bolts and four ¼-20 nuts with attached tooth washers that are supplied. Torque to 50 in-lbs (see Figure 11).

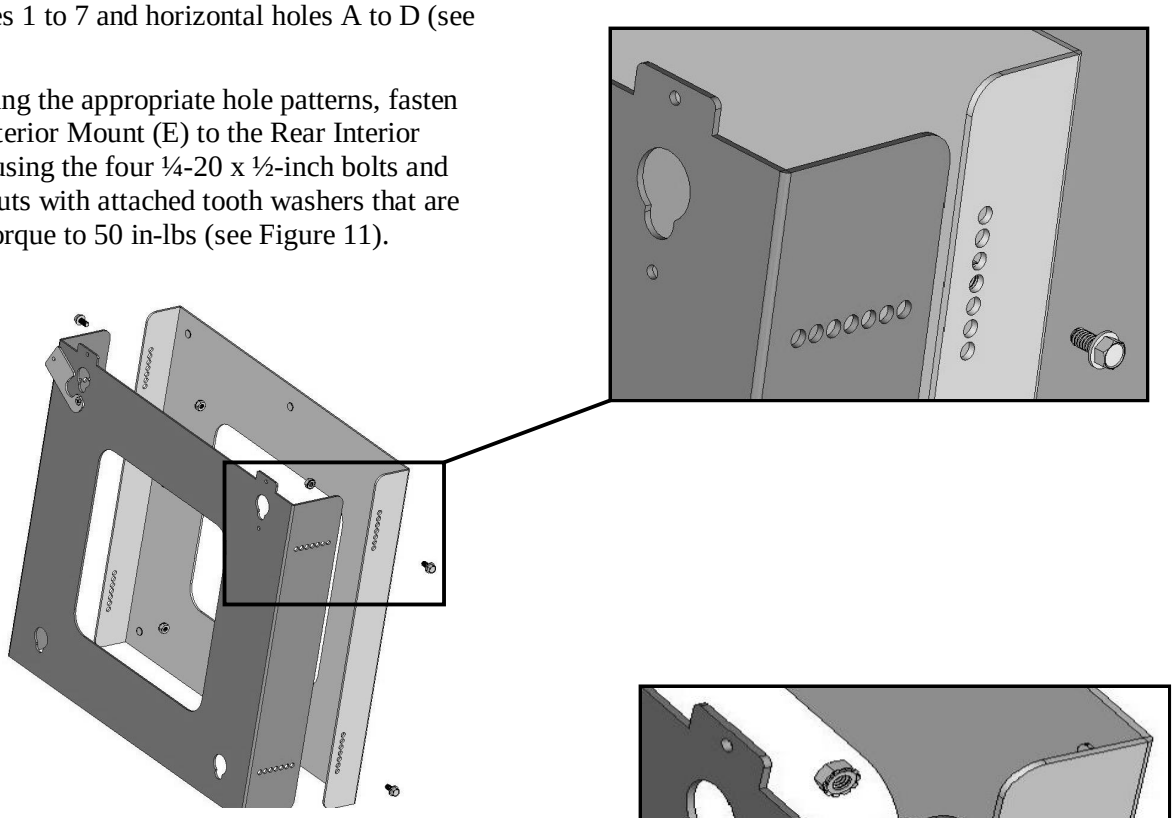


Figure 10. Front Interior Mount

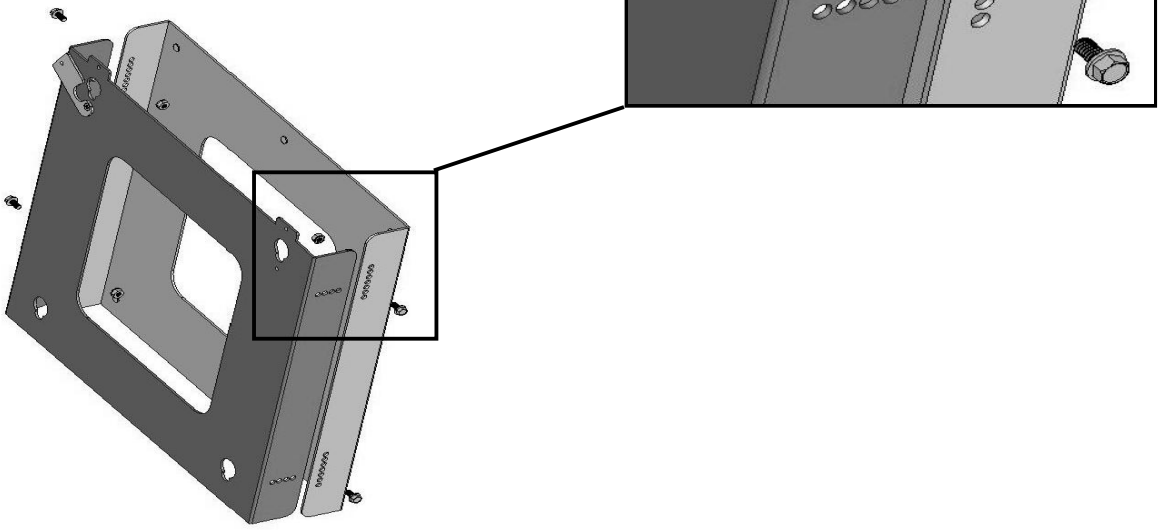


Figure 11. Rear Interior Mount

Mount Display to Interior Mount

Mount the display to the interior mount as follows:

1. Mount display with installed Chief interface bracket to Interior Mount Assembly (E) by inserting 4 slotted bushings into keyhole slots (see Figure 12).
2. Seat properly, ensuring that all four bushing are correctly engaged. Check clearances and display centering and adjust interior mount location if necessary.

NOTE: The location of the audio and display connectors on the rear of your display may require that you make the connections during the final display mounting process.

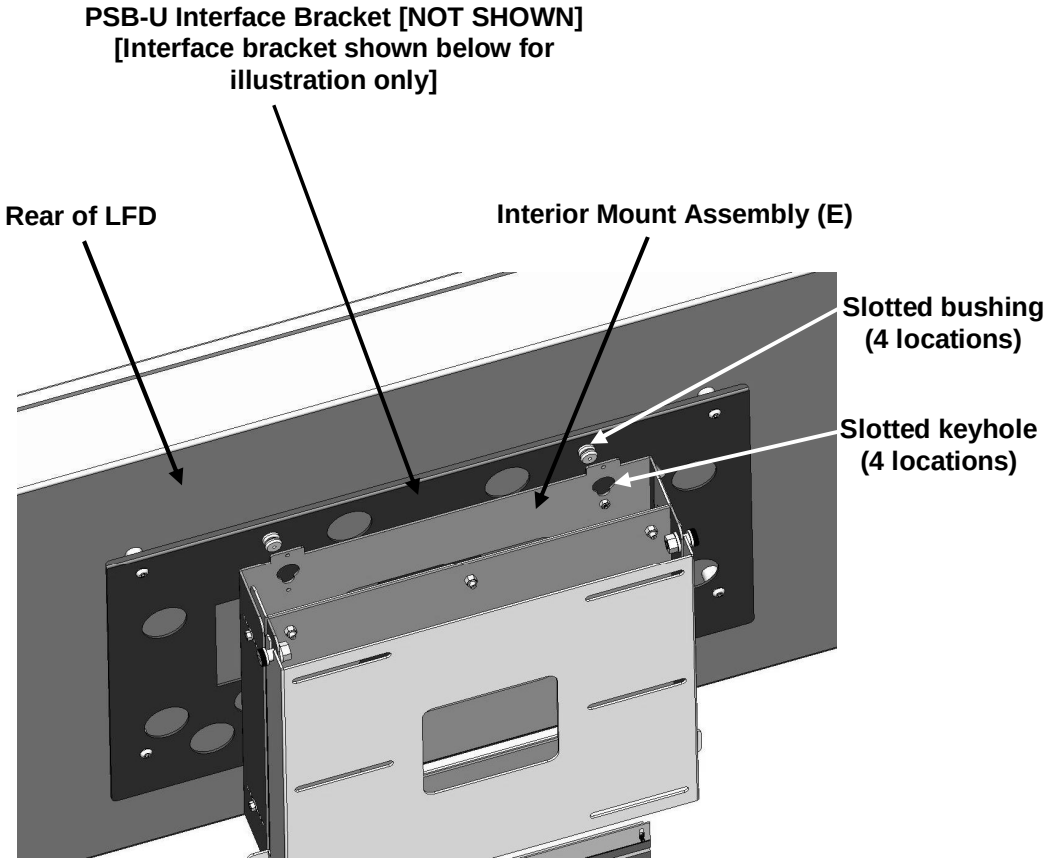

PSB-U Interface Bracket [NOT SHOWN]
[Interface bracket shown below for illustration only]
Rear of LFD
Interior Mount Assembly (E)
Slotted bushing (4 locations)
Slotted keyhole (4 locations)

Figure 12. Mount Display to Interior Mount

Check Mount Clearances

Check the mount clearances to ensure they are set within the specified limits as follows:

1. Check to ensure that the minimum value for A and B is 1.7 inches. Maximum value for C is 6.8 inches as shown in Figure 13.
2. If the display is not positioned within the dimensions shown below, remove the display and adjust the brackets accordingly (see "Adjust and Assemble Interior Mount" on page 10.

Display depth	Bracket
0-2.5"	Deep (E-1)
2.5-5.7"	Shallow (E-2)

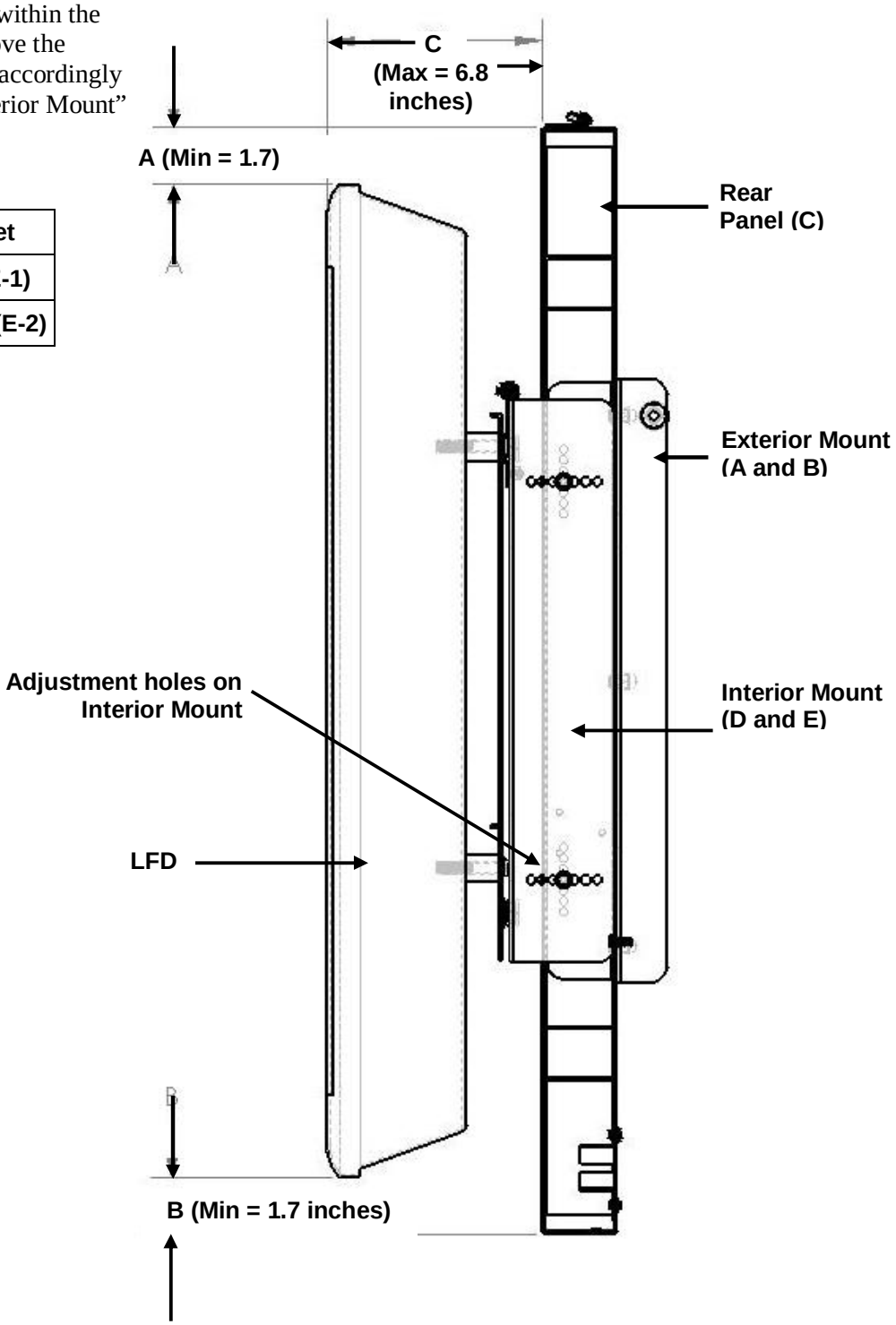


Figure 13. Check Mount Clearances

Secure Display to Interior Bracket

Secure the display to the interior bracket as follows:

1. Rotate the latch on the Front Interior Mount (E-1 or E-2) over the bushing on the Chief bracket to a vertical position. See Figure 14.
2. Secure latch in vertical position by inserting a zip-tie through the holes in the latch and in the Front Interior Mount (E). The zip-tie will secure the latch to prevent unintentional disengagement of the display from the front mount. See Figure 15.

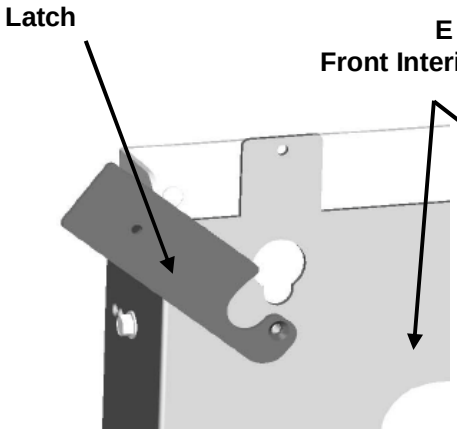


Figure 14. Latch in Unlocked Position

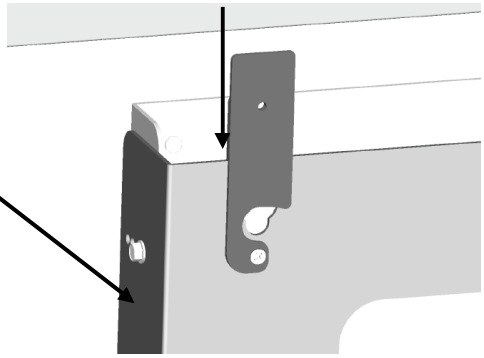


Figure 15. Latch in Locked Position

Install Cables

Install the cables after installing the Rear Panel Assembly, but before mounting the Display Guard.

To install the cables, do the following:

1. Remove the four 8-32 x ¼ hex head bolts from the top half of the split panel and lay aside. See Figure 16.
2. Route video and speaker cables into the enclosure from the rear leaving a sufficient length of cable inside the enclosure to allow connection to the display.
3. Replace top half of the split panel. Apply downward pressure to create a seal around evenly spaced cables as the four bolts are reinstalled and tightened to 12 to 15 in-lbs.
4. Plug in AC cord to power strip.
5. Use cable ties to secure cords as necessary.
6. Ensure that no cables or cords interfere with the exhaust fans.

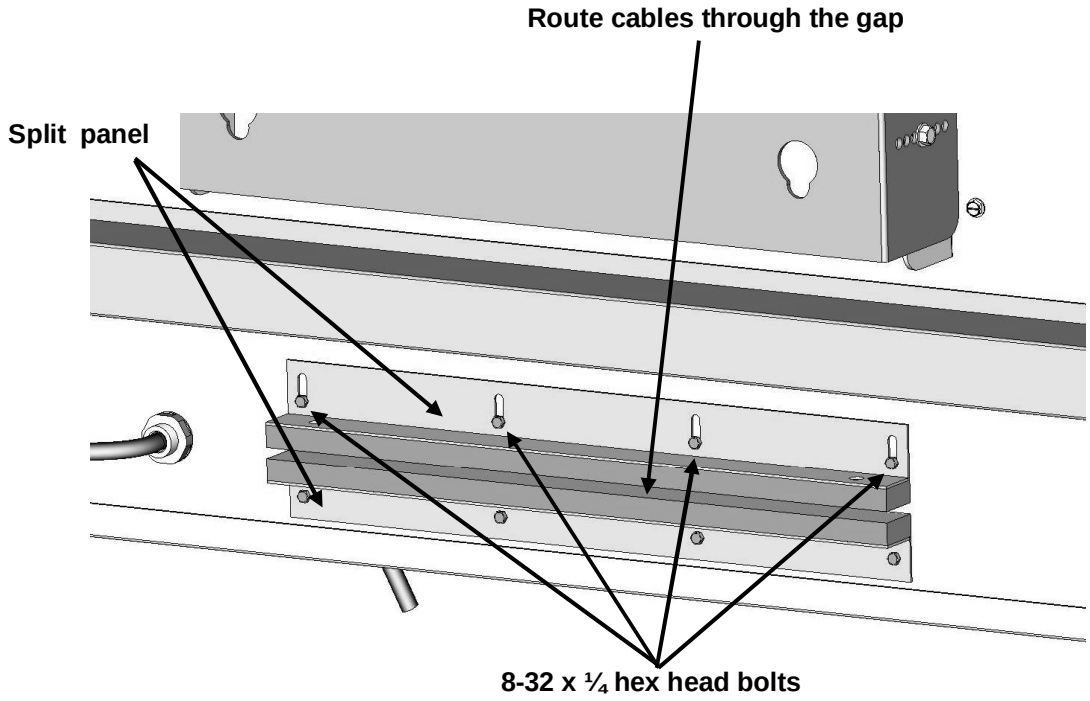


Figure 16. Install Cables

Attach Cover

To attach the Display Guard cover, do the following:

1. Locate the male halves of two slip hinges on the Rear Panel Assembly (C). See Figure 17.
2. Locate the mating halves of those slip hinges on the Front cover (G).
3. Using two people, lift the cover (G) and align the hinge parts on the cover and case.
4. Slide the cover assembly to the left until the hinges are completely assembled and then rotate the detent to block hinge movement (see Figure 18).

WARNINGS:

- **When mounting cover to Rear Panel, exercise caution so that fingers do not get pinched.**
- **When mounting cover to Rear Panel, the weight of the cover must be supported until after the gas springs are installed.**

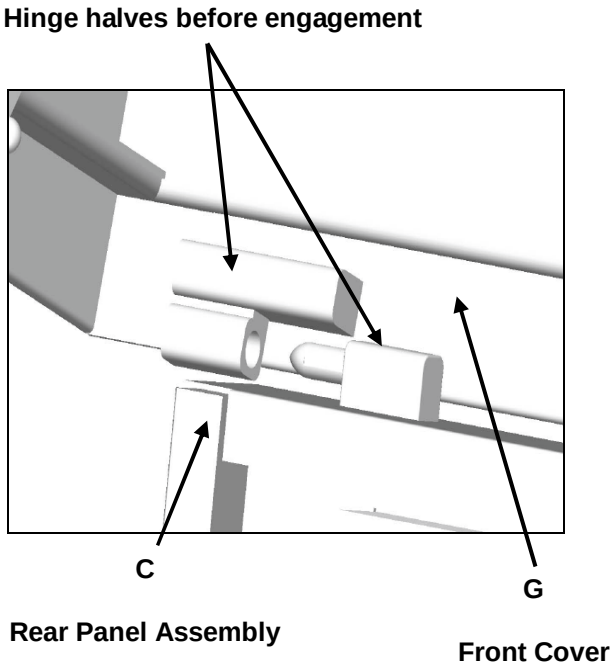


Figure 17. Connect Hinges on Rear Panel and Front Cover

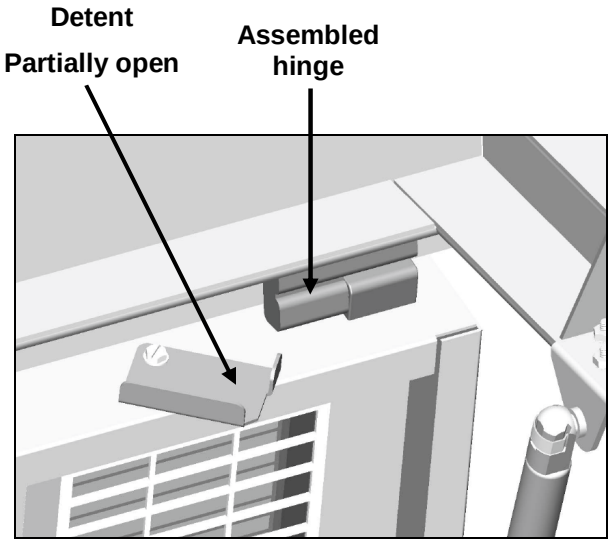


Figure 18. Slide Cover Left to Assemble the Hinges

Mount Gas Springs

To mount the gas springs, do the following:

1. Hold the Cover (G) open (see Figure 19).
2. Install the two gas springs that are used to support the cover in the open position.
3. Attach the larger diameter end of the gas springs to the Cover (G).
4. Install each gas spring by pushing the socket end over the ball on the Cover (G) and the Rear Panel (C). See Figure 20.
5. To remove a socket, insert a flat blade screwdriver under the retaining clip on the socket and pry the clip away from the socket to disengage the ball (do not pry clip off). See Figure 21.

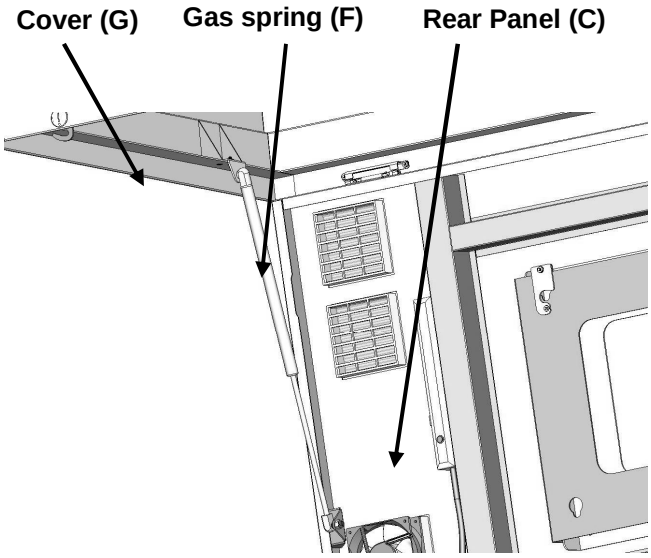


Figure 19. Hold Cover Open

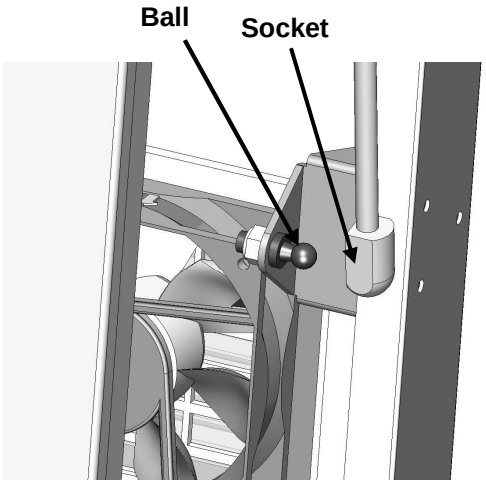


Figure 20. Attach Socket Ends

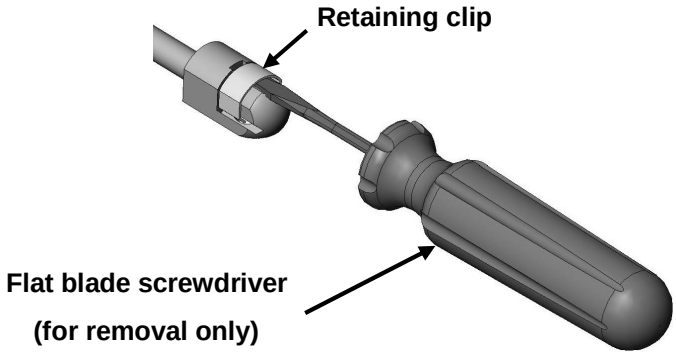


Figure 21. Removing a Socket

Lock the Display Guard

To lock the display guard, do the following:

1. Close the cover.
2. Using the key, rotate the cover locks one-quarter turn to lock the cover to the Rear Panel (see Figure 22).
3. Keys for the locks can be removed in both locked and unlocked positions. Be certain that the hooks on the cover are engaged with the pins on the Rear Panel Assembly to ensure the seal and enclosure security.
4. Check each fan to ensure that all the fans are operating.

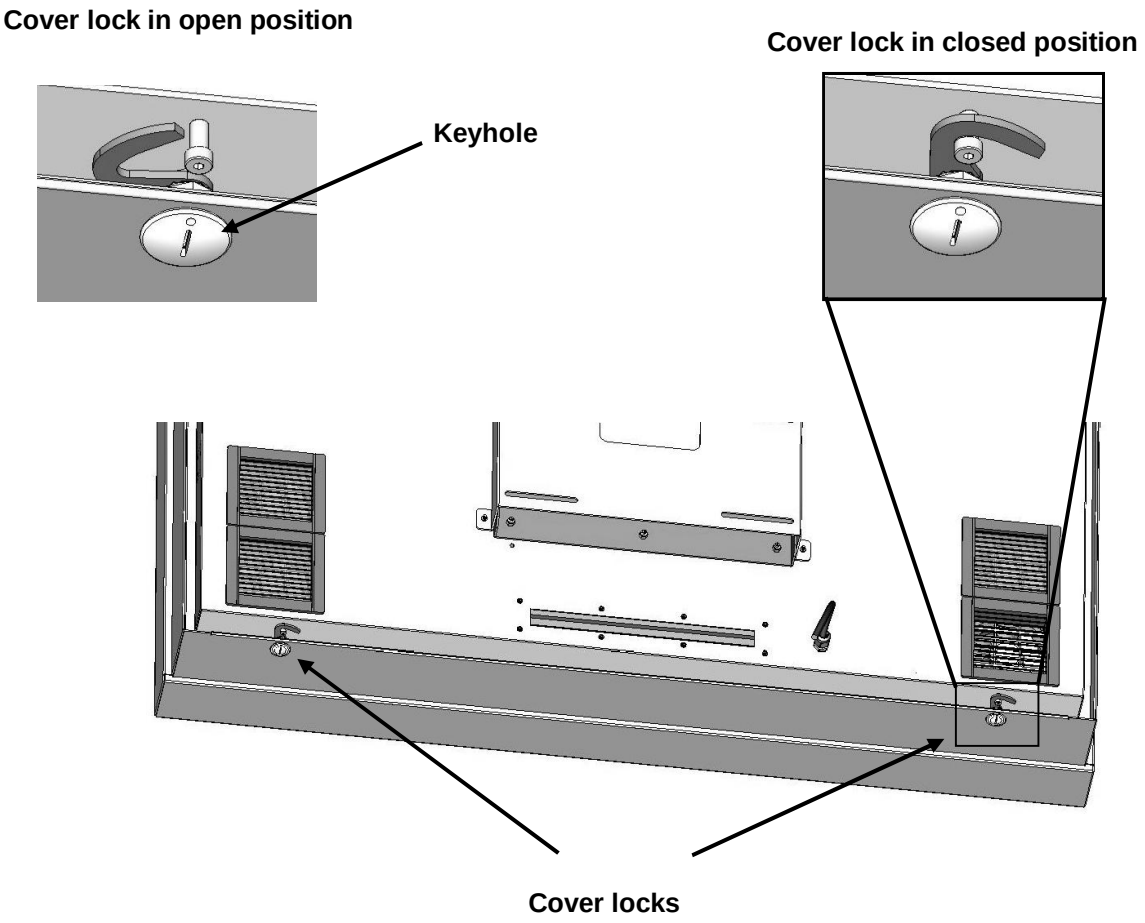


Figure 22. Lock the Display Guard